

# CV-1161

## Controlled volatility pressure sensitive silicone adhesive

### DESCRIPTION

- One-part pressure sensitive adhesive
- Retains adhesive qualities in the presence of minor liquid and particulate contaminants
- Properties unaffected by normal temperature and pressure variations

Meets or exceeds the ASTM E 595 low outgas specifications outlined in NASA SP-R-0022A and European Space Agency PSS-014-702, with a TML of  $\leq 1\%$  and CVCM of  $\leq 0.1\%$

### APPLICATION

- For adhering and bonding silicone elastomers, metals, paper, glass, fabric, organic rubbers, some synthetics, and films such as polyester or Kapton
- For applications requiring low outgassing and minimal volatile condensable materials

### PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
<b>Uncured:</b>			
Appearance	Translucent	ASTM D2090	002
Non-Volatile Content	50%	-	004
Viscosity	3,000 cP (3,000 mPas)	ASTM D1084, D2196	001
<b>Cured: 2 hours at 60°C (140°F)</b>			
Collected Volatile Condensable Material (CVCM)	0.04%	ASTM E595	072
Total Mass Loss (TML)	0.15%	ASTM E595	072
<b>Cured: 90 minutes at 150°C (302°F) in oven, then 15 minutes at 150°C (302°F) in heat press</b>			
Release Force of PSA	7.5 ppi (1.3 kN/m)	ASTM D1876	085

Properties tested on a lot-to-lot basis. Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

## INSTRUCTIONS FOR USE

Supplied in Ethyl Acetate solvent, CV-1161 can be thinned with Ethyl Acetate or other suitable solvents when necessary. Apply by brushing or spraying. Obtain maximum adhesion by thoroughly cleaning substrates prior to application. Apply adhesive liberally to both substrates and allow the solvent to evaporate before making contact. Additional coats may increase the adhesive bond.

Caution: Consult the MSDS for CV-1161 prior to use, as the solvent carrier is hazardous.

### Removal

Use Ethyl Acetate or other commercial organic solvents to remove adhesive. Suggested temperatures and times for solvent removal are:

50°C	1 HOUR
100°C	10 minutes
150°C	5 minutes

### Processing and Handling Recommendations

Please [contact](#) NuSil technical sales staff regarding questions or concerns related to a particular application.

## ROHS AND REACH COMPLIANCE

Please [contact](#) NuSil Technology's Regulatory Compliance department with any questions or for further assistance

## SPECIFICATIONS

Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications.

## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The

### Packaging

2 oz (57 g)  
1 Pint (400 g)

### Warranty

12 Months

exclusive remedy and NuSil Technology's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil Technology expressly disclaims any liability for incidental or consequential damages.

## WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. The user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please [contact](#) NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheet and [contact](#) NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

## PATENT / INTELLECTUAL PROPERTY WARNING

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology does not warrant the use or sale of the products described herein will not

infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.